AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application. Please amend claims 1, 3 and 13 as follows:

LISTING OF CLAIMS:

1. (Currently Amended) An optical fiber holding device, comprising: an optical fiber having a grating;

a strip-shaped member, having a rectilinear groove in which the optical fiber is accommodated, a gap formed between a wall surface of the rectilinear groove and the optical fiber, and a gel substance, which remains soft, contacting with the optical fiber and filled in the gap; and

a substrate on which the optical fiber and the strip-shaped member are mounted.

- 2. (Original) An optical fiber holding device according to claim 1, wherein the optical fiber is not contacted with a wall surface of the groove of the strip-shaped member.
 - 3. (Currently Amended) An optical fiber holding device, comprising: an optical fiber having a grating;
 - a heater for heating the grating to a predetermined temperature distribution;
- a strip-shaped member, having a rectilinear groove in which the optical fiber is accommodated, a gap formed between a wall surface of the rectilinear groove and

the optical fiber, and a gel substance, which remains soft, contacting with the optical fiber and filled in the gap; and

a substrate on which the heater and the strip-shaped member are mounted.

- 4. (Original) An optical fiber holding device according to claim 3, wherein the optical fiber is not contacted with a wall surface of the groove of the strip-shaped member.
- 5. (Original) An optical fiber holding device according to claim 3, wherein the optical fiber is contacted with the heater.
- 6. (Previously Presented) An optical fiber holding device according to claim 3, further comprising:
- a Peltier element for keeping a temperature level of the predetermined temperature distribution of the grating at a predetermined level; and
- a temperature sensor for detecting the temperature of the optical fiber used to control the Peltier element.
- 7. (Original) An optical fiber holding device according to claim 1, wherein a positioning mark is provided on the substrate, which is used for positioning the strip-shaped member on the substrate.

- 8. (Original) An optical fiber holding device according to claim 3, wherein a positioning mark is provided on the substrate, which is used for positioning the strip-shaped member on the substrate.
- 9. (Original) An optical fiber holding device according to claim 1, wherein the gel substance includes a silicon compound.
- 10. (Original) An optical fiber holding device according to claim 3, wherein the gel substance includes a silicon compound.
- 11. (Original) An optical fiber holding device according to claim 1, wherein the strip-shaped member is made of quartz.
- 12. (Original) An optical fiber holding device according to claim 3, wherein the strip-shaped member is made of quartz.
 - 13. (Currently Amended) An optical dispersion-equalizer, comprising: an optical fiber having a grating;
 - a heater for heating the grating to a predetermined temperature distribution;
 - a heater control circuit for controlling a temperature of the heater;
- a strip-shaped member, having a rectilinear groove in which the optical fiber is accommodated, a gap formed between a wall surface of the rectilinear groove and the optical fiber, and a gel substance, which remains soft, contacting with the optical fiber and filled in the gap;

- a substrate on which the heater and the strip-shaped member are mounted;
- a Peltier element for keeping temperature level of the predetermined temperature distribution of the grating at a predetermined level;
 - a temperature sensor for detecting the temperature of the optical fiber;
- a Peltier element control circuit for controlling the peltier element based on the temperature of the optical fiber detected by the temperature sensor; and an optical circuitry for inputting an optical signal to the grating and for outputting the optical signal reflected on the grating.
- 14. (Previously Presented) A method of manufacturing an optical fiber holding device comprising an optical fiber having a grating; a heater for heating the grating to a predetermined temperature distribution; a strip-shaped member, having a rectilinear groove in which the optical fiber is accommodated, and a gel substance contacting with the optical fiber is filled; and a substrate on which the heater and the strip-shaped member are mounted, said method comprising the steps of

filling the gel substance in the groove of the strip-shaped member;
accommodating the optical fiber in the groove of the strip-shaped member in
which the gel substance is filled;

mounting the strip-shaped member, in which the gel substance is filled and the optical fiber is accommodated, on the substrate on which the heater is mounted; and

moving the strip-shaped member on the substrate so as to carry out a positioning of the groove with respect to the heater.

15. (Previously Presented) A method of manufacturing an optical fiber holding device comprising an optical fiber having a grating; a heater for heating the grating to a predetermined temperature distribution; a strip-shaped member, having a rectilinear groove in which the optical fiber is accommodated, and a gel substance contacting with the optical fiber is filled; and a substrate on which the heater and the strip-shaped member are mounted; said method comprising the steps of

securing the strip-shaped member on the substrate on which the heater is mounted;

filling the gel substance in the groove of the strip-shaped member secured on the substrate;

inserting and accommodating the optical fiber in the groove of the stripshaped member in which the gel substance is filled; and

moving the optical fiber on the heater so as to carry out a positioning of the grating with respect to the heater.

16. (Previously Presented) A method of manufacturing an optical fiber holding device comprising an optical fiber having a grating; a heater for heating the grating to a predetermined temperature distribution; a strip-shaped member, having a rectilinear groove in which the optical fiber is accommodated, and a gel substance is filled; and a substrate on which the heater and the strip-shaped member are mounted, said method comprising the steps of

mounting the optical fiber on the heater which is mounted on the substrate; coating the optical fiber mounted on the heater with a gel substance;

mounting the strip-shaped member on the substrate and accommodating the optical fiber in the groove of the strip-shaped member; and moving the strip-shaped member on the substrate so as to carry out a positioning of the grating with respect to the heater.